

RESTRICTED
RESTRICTED

STAT

Number of revolutions of shaft	
At first speed, rpm	80.3
At second speed, rpm	86.5
Pneumatic motor	
Type	
Capacity, hp	PRD-6.5
Number of revolutions, rpm	6.5
Air pressure, atm	1,500
Air consumption, cu m/min	3.5
	5.8
Weight of LBS-2s machine without motor frame and supports, kg	332

Dimensions of Machine, mm

	<u>Position of Machine</u>		
	<u>Operating Vertically</u>	<u>Operating Horizontally</u>	<u>During Transportation</u>
Length	920	1,965	1,150
Width	632	632	632
Height	1,772	987	918

During the period of experimentation, five vertical boreholes with a total length of 367 meters and 15 horizontal boreholes with a total length of 224 meters were drilled.

The drilling was carried on along coal seams of average or below-average toughness. The angle of dip of the seams was 68 degrees, and most of the seams were subject to sudden ejections of coal and gas. The wall rock was firm. The vertical boreholes were drilled along several seams varying in thickness.

Tests have indicated that the use of the LBS-2s machine in combination with the PRD-6.5 pneumatic motor is very effective and gives excellent results.

The maximum planned height for vertical boreholes drilled by the LBS-2s machine was up to 60 meters. Actually, boreholes have been drilled as high as 140 meters. The efficiency and dependability of the drilling bars of the LBS-2s are considerably higher than those of the SBM-3u machine. The drilling bars of the LBS-2s do not break or buckle.

LBS-2s machines in combination with PRD-6.5 pneumatic motors will be extensively used in Donbass mines.

STAT

- E N D -

- 2 -

RESTRICTED
RESTRICTED